

## SUBJECT INDEX

**Acids**

Field-Scale Observations of Arsenic and Boron in Soil Irrigated with Drainwater, B. R. Faulkner and J. C. Guitjens, IR May/June 00, p186-189.

**Adjustment**

Adjusting Temperature Parameters to Reflect Well-Watered Conditions, B. Temesgen, R. G. Allen and D. T. Jensen, IR Jan./Feb. 99, p26-33.

**Adsorption**

Field-Scale Observations of Arsenic and Boron in Soil Irrigated with Drainwater, B. R. Faulkner and J. C. Guitjens, IR May/June 00, p186-189.

**Advection**

Solute Transport Modeling in Overland Flow Applied to Fertigation, P. García-Navarro, E. Playán and N. Zapata, IR Jan./Feb. 00, p33-40.

**Africa**

Water Distribution Management in Small West African Canal Systems, W. Ray Norman, M. Todd Walter, Michael F. Walter and Erin S. Brooks, IR Sept./Oct. 00, p304-313.

**Agriculture**

Problems of Irrigation in Developing Countries, Phillip Z. Kirpich, Dorota Z. Haman and Stuart W. Styles, IR Jan./Feb. 99, p1-6.

**Air temperature**

Adjusting Temperature Parameters to Reflect Well-Watered Conditions, B. Temesgen, R. G. Allen and D. T. Jensen, IR Jan./Feb. 99, p26-33.

**Analysis**

Inlet Pressure for Horizontal Tapered Laterals, Arif A. Anwar, IR Jan./Feb. 00, p57-63.

**Anisotropic soils**

Numerical Solution of 2D Free Surface Flow to Ditch Drains in Anisotropic Soils, Vinod Kumar, C. S. Jaiswal and H. S. Chauhan, IR July/Aug. 00, p250-254.

**Application methods**

Soil Salinity Modeling Over Shallow Water Table, II: Application of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p234-242.

**Approximation methods**

Approximating Wetted Perimeter in Power-Law Cross Section, T. S. Strelkoff and A. J. Clemmens, IR Mar./Apr. 00, p98-109.

**Aquifers**

Influence Zone of Recharging-Dewatering Actions in Unconfined Aquifer, R. Revelli and L. Ridolfi, IR Mar./Apr. 00, p110-112.

Simple Approximation for Flowing Well Problem, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Jan./Feb. 00, p65-67.

Solution for a Stream Depletion Problem, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Mar./Apr. 00, p125-126.

Transient Ditch Drainage of Two-Layered Soil, H. C. Sharma, P. N. Kapoor and H. S. Chauhan, IR Jan./Feb. 00, p14-20.

**Arid lands**

Adjusting Temperature Parameters to Reflect Well-Watered Conditions, B. Temesgen, R. G. Allen and D. T. Jensen, IR Jan./Feb. 99, p26-33.

**Arsenic**

Field-Scale Observations of Arsenic and Boron in Soil Irrigated with Drainwater, B. R. Faulkner and J. C. Guitjens, IR May/June 00, p186-189.

**Artesian aquifers**

Simple Method for Confined-Aquifer Parameter Estimation, Sushil K. Singh, IR Nov./Dec. 00, p404-407.

**ASCE Awards & Prizes**

Editorial, J. C. Guitjens, P.E., IR May/June 00, p141.

**ASCE Committees**

Editorial, J. C. Guitjens, IR July/Aug. 00, p205.

**ASCE Publications**

Editorial, J. C. Guitjens, P.E., IR May/June 00, p141.

Editorial, J. C. Guitjens, IR July/Aug. 00, p205.

Journal Needs More New Referees, John C. Guitjens, IR Mar./Apr. 00, p77.

**Australia**

Border Irrigation Field Experiment. I: Water Balance, Mathew Gilfedder, Luke D. Connell and Russell G. Mein, IR Mar./Apr. 00, p85-91.

Border Irrigation Field Experiment. II: Salt Transport, Mathew Gilfedder, Russell G. Mein and Luke D. Connell, IR Mar./Apr. 00, p92-97.

**Autocorrelation**

Time Series Modeling for Predicting Spatially Variable Infiltration, L. J. Schwankl, N. S. Raghuvanshi and W. W. Wallender, IR Sept./Oct. 00, p283-287.

**Basins**

Water Reuse in Sequential Basin Irrigation, N. Zapata, E. Playán and J. M. Faci, IR Nov./Dec. 00, p362-370.

**Bends, hydraulic**

Supercritical Flow in Bend Manhole, Giuseppe Del Giudice, Corrado Gisonni and Willi H. Hager, IR Jan./Feb. 00, p48-56.

**Border irrigation**

Border Irrigation Field Experiment. I: Water Balance, Mathew Gilfedder, Luke D. Connell and Russell G. Mein, IR Mar./Apr. 00, p85-91.

Border Irrigation Field Experiment. II: Salt Transport, Mathew Gilfedder, Russell G. Mein and Luke D. Connell, IR Mar./Apr. 00, p92-97.

Estimation of Surface Volume in Hydrological Models for Border Irrigation, Joaquín Monserrat and Javier Barragán, IR Sept./Oct. 98, p238-247.

**Canal design**

Comprehensive Design of Minimum Cost Irrigation Canal Sections, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Sept./Oct. 00, p322-327.

Design of Minimum Seepage Loss Canal Sections, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Jan./Feb. 00, p28-32.

**Canals**

Approximating Wetted Perimeter in Power-Law Cross Section, T. S. Strelkoff and A. J. Clemmens, IR Mar./Apr. 00, p98-109.

Comprehensive Design of Minimum Cost Irrigation Canal Sections, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Sept./Oct. 00, p322-327.

Optimal Design of Parabolic-Bottomed Triangle Canals, K. Babaeyan-Koopaei, E. M. Valentine and D. C. Swales, IR Nov./Dec. 00, p408-411.

**Center-pivot irrigation**

Correction Factors for Center Pivots with End Guns, Arif A. Anwar, IR Mar./Apr. 00, p113-118.

Model of Water Application under Pivot Sprinkler. II: Calibration and Results, Bruno Molle and Yves Le Gat, IR Nov./Dec. 00, p348-354.

**Channels, waterways**

Theoretical End-Depth-Discharge Relationship for Free Overfall, Vito Ferro, IR Jan./Feb. 99, p40-44.

**Climatic data**

Estimating Solar Radiation and Evapotranspiration Using Minimum Climatological Data, Zohrab Samani, IR July/Aug. 00, p265-267.

**Climatology**

Estimating Solar Radiation and Evapotranspiration Using Minimum Climatological Data, Zohrab Samani, IR July/Aug. 00, p265-267.

**Coastal environment**

Long-Term Evapotranspiration from Coastal Avocado/Citrus Orchard, Mark E. Grismer, IR Jan./Feb. 00, p1-7.

**Coefficients**

Estimating Evaporation from Bare or Nearly Bare Soil, R. L. Snyder, K. Bali, F. Ventura and H. Gomez-MacPherson, IR Nov./Dec. 00, p399-403.

**Combined sewers**

Supercritical Flow in Bend Manhole, Giuseppe Del Giudice, Corrado Gisonni and Willi H. Hager, IR Jan./Feb. 00, p48-56.

**Cost minimization**

Comprehensive Design of Minimum Cost Irrigation Canal Sections, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Sept./Oct. 00, p322-327.

**Cracks**

Infiltration of Water into Soil with Cracks, V. Novák, J. Šimunek and M. Th. van Genuchten, IR Jan./Feb. 00, p41-47.

**Crop production**

Evapotranspiration and Crop Coefficients of Wheat and Sorghum Climate in India, N. K. Tyagi, D. K. Sharma and S. K. Luthra, IR July/Aug. 00, p215-222.

Long-Term Evapotranspiration from Coastal Avocado/Citrus Orchard, Mark E. Grismer, IR Jan./Feb. 00, p1-7.

**Crops**

Daily Evapotranspiration Prediction from Louisiana Flooded Rice Field, S. B. Shah and R. J. Edling, IR Jan./Feb. 00, p8-13.

Estimating Evaporation from Bare or Nearly Bare Soil, R. L. Snyder, K. Bali, F. Ventura and H. Gomez-MacPherson, IR Nov./Dec. 00, p399-403.

Optimal Irrigation Allocation: A Multilevel Approach, Sabu Paul, Sudhendra Nath Panda and D. Nagesh Kumar, IR May/June 00, p149-156.

Plant Water Use and Crop Curves for Hybrid Poplars, David J. Gochis and Richard H. Cuenca, IR July/Aug. 00, p206-214.

**Cross sections**

Approximating Wetted Perimeter in Power-Law Cross Section, T. S. Strelkoff and A. J. Clemmens, IR Mar./Apr. 00, p98-109.

Optimal Channel Cross Section with Composite Roughness, Amlan Das, IR Jan./Feb. 00, p68-72.

Optimal Design of Parabolic-Bottomed Triangle Canals, K. Babaeyan-Koopaei, E. M. Valentine and D. C. Swales, IR Nov./Dec. 00, p408-411.

**Desalination**

Improving Efficiency of Desalination with Subsurface Drainage, E. G. Youngs and P. B. Leeds-Harrison, IR Nov./Dec. 00, p375-380.

**Developing countries**

Problems of Irrigation in Developing Countries, Phillip Z. Kirpich, Dorota Z. Haman and Stuart W. Styles, IR Jan./Feb. 99, p1-6.

Water Planning for Food Production in Developing Countries by Phillip Z. Kirpich, Otto J. Helweg, IR May/June 00, p203.

**Dewatering**

Influence Zone of Recharging-Dewatering Actions in Unconfined Aquifer, R. Revelli and L. Ridolfi, IR Mar./Apr. 00, p110-112.

**Diffusion**

Solute Transport Modeling in Overland Flow Applied to Fertigation, P. García-Navarro, E. Playán and N. Zapata, IR Jan./Feb. 00, p33-40.

**Dimensional analysis**

Simultaneous Flow over and Under a Gate, Vito Ferro, IR May/June 00, p190-193.

**Discharge**

Correction Factors for Center Pivots with End Guns, Arif A. Anwar, IR Mar./Apr. 00, p113-118.

Simple Approximation for Flowing Well Problem, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Jan./Feb. 00, p65-67.

Simultaneous Flow over and Under a Gate, Vito Ferro, IR May/June 00, p190-193.

Theoretical End-Depth-Discharge Relationship for Free Overfall, Vito Ferro, IR Jan./Feb. 99, p40-44.

**Discharge coefficients**

Discharge Characteristics of Skew Sluice Gates, Prabhata K. Swamee, Santosh K. Pathak, Talib Mansoor and Chandra Shekhar P. Ojha, IR Sept./Oct. 00, p328-334.

**Discharge measurement**

Water Reuse in Sequential Basin Irrigation, N. Zapata, E. Playán and J. M. Faci, IR Nov./Dec. 00, p362-370.

**Diversion structures**

Hydraulic Performance of Fish Bypass-Pools for Irrigation Diversion Channels, Athanasios N. Papanicolaou and Adam R. Maxwell, IR Sept./Oct. 00, p314-321.

**Drain tiles**

Optimization-Based Simulation and Design of Tile Drainage Systems, Amlan Das, IR Nov./Dec. 00, p381-388.

**Drainage**

Border Irrigation Field Experiment. II: Salt Transport, Mathew Giffedder, Russell G. Mein and Luke D. Connell, IR Mar./Apr. 00, p92-97.

Field-Scale Observations of Arsenic and Boron in Soil Irrigated with Drainwater, B. R. Faulkner and J. C. Guitjens, IR May/June 00, p186-189.

Numerical Solution of 2D Free Surface Flow to Ditch Drains in Anisotropic Soils, Vinod Kumar, C. S. Jaiswal and H. S. Chauhan, IR July/Aug. 00, p250-254.

Simulating Spatially Distributed Water and Salt Balances, L. Mateos, C. A. Young, W. W. Wallender and H. L. Carlson, IR Sept./Oct. 00, p288-295.

**Drainage systems**

Transient Ditch Drainage of Two-Layered Soil, H. C. Sharma, P. N. Kapoor and H. S. Chauhan, IR Jan./Feb. 00, p14-20.

**Drains**

Circular Isobaric Cavity in Descending Unsaturated Flow, A. R. Kacimov, IR May/June 00, p172-178.

Finite-Element Grid Configurations for Drains, K. C. Tarboton, P.E. and W. W. Wallender, P.E., IR July/Aug. 00, p243-249.

**Drawdown**

Simple Approximation for Flowing Well Problem, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Jan./Feb. 00, p65-67.

Simple Method for Confined-Aquifer Parameter Estimation, Sushil K. Singh, IR Nov./Dec. 00, p404-407.

**Dynamic programming**

Optimal Irrigation Allocation: A Multilevel Approach, Sabu Paul, Sudhindra Nath Panda and D. Nagesh Kumar, IR May/June 00, p149-156.

**Economic factors**

Benefits of Flexible Irrigation Water Supply, Paul R. Cross, P.E., IR Sept./Oct. 00, p275-278.

**Efficiency**

Optimal Design of Parabolic-Bottomed Triangle Canals, K. Babaeyan-Koopaei, E. M. Valentine and D. C. Swailes, IR Nov./Dec. 00, p408-411.

Stilling Basins for Pipe Outlets Using Wedge-Shaped Splitter Block, D. V. S. Verma and Arun Goel, IR May/June 00, p179-184.

**Electrokinetics**

Nitrate Electromigration in Sandy Soil: Closed System Response, Naglaa Eid, Donald Slack and Dennis Larson, IR Nov./Dec. 00, p389-397.

**Electroosmosis**

Nitrate Electromigration in Sandy Soil: Closed System Response, Naglaa Eid, Donald Slack and Dennis Larson, IR Nov./Dec. 00, p389-397.

**Elevation**

Simulating Elevation and Infiltration in Level-Basin Irrigation, N. Zapata and E. Playán, IR Mar./Apr. 00, p78-84.

**Energy dissipation**

Stilling Basins for Pipe Outlets Using Wedge-Shaped Splitter Block, D. V. S. Verma and Arun Goel, IR May/June 00, p179-184.

**Environmental factors**

Benefits of Flexible Irrigation Water Supply, Paul R. Cross, P.E., IR Sept./Oct. 00, p275-278.

**Equipment**

Sprinkler Head Maintenance Effects on Water Application Uniformity, Michael J. Louie and John S. Selker, IR May/June 00, p142-148.

**Estimation**

A Priori Identifiability of Unsaturated Soil Parameters, M. S. Ghidoui and K. S. H. Prasad, IR May/June 00, p163-171.

Simple Method for Confined-Aquifer Parameter Estimation, Sushil K. Singh, IR Nov./Dec. 00, p404-407.

Theoretical Justification of SCS Method for Runoff Estimation, Bofu Yu, IR Nov./Dec. 98, p306-310.

**Evaporation**

Estimating Evaporation from Bare or Nearly Bare Soil, R. L. Snyder, K. Bali, F. Ventura and H. Gomez-MacPherson, IR Nov./Dec. 00, p399-403.

**Evapotranspiration**

Adjusting Temperature Parameters to Reflect Well-Watered Conditions, B. Temesgen, R. G. Allen and D. T. Jensen, IR Jan./Feb. 99, p26-33.

Daily Evapotranspiration Prediction from Louisiana Flooded Rice Field, S. B. Shah and R. J. Edling, IR Jan./Feb. 00, p8-13.

Estimating Evaporation from Bare or Nearly Bare Soil, R. L. Snyder, K. Bali, F. Ventura and H. Gomez-MacPherson, IR Nov./Dec. 00, p399-403.

Estimating Solar Radiation and Evapotranspiration Using Minimum Climatological Data, Zohrab Samani, IR July/Aug. 00, p265-267.

Estimation of FAO Blaney-Criddle *b* Factor by RBF Network, Slavisa Trajkovic, Miodir Stankovic and Branimir Todorovic, IR July/Aug. 00, p268-270.

Evapotranspiration and Crop Coefficients of Wheat and Sorghum Climate in India, N. K. Tyagi, D. K. Sharma and S. K. Luthra, IR July/Aug. 00, p215-222.

Long-Term Evapotranspiration from Coastal Avocado/Citrus Orchard, Mark E. Grismer, IR Jan./Feb. 00, p1-7.

Plant Water Use and Crop Curves for Hybrid Poplars, David J. Gochis and Richard H. Cuenca, IR July/Aug. 00, p206-214.

Simulating Spatially Distributed Water and Salt Balances, L. Mateos, C. A. Young, W. W. Wallender and H. L. Carlson, IR Sept./Oct. 00, p288-295.

**Fertilization**

Solute Transport Modeling in Overland Flow Applied to Fertilization, P. Garcia-Navarro, E. Playán and N. Zapata, IR Jan./Feb. 00, p33-40.

**Fertilizers**

Nitrate Electromigration in Sandy Soil: Closed System Response, Naglaa Eid, Donald Slack and Dennis Larson, IR Nov./Dec. 00, p389-397.

**Field investigations**

Long-Term Evapotranspiration from Coastal Avocado/Citrus Orchard, Mark E. Grismer, IR Jan./Feb. 00, p1-7.

**Finite differences**

Numerical Solution of 2D Free Surface Flow to Ditch Drains in Anisotropic Soils, Vinod Kumar, C. S. Jaiswal and H. S. Chauhan, IR July/Aug. 00, p250-254.

Optimization-Based Simulation and Design of Tile Drainage Systems, Amlan Das, IR Nov./Dec. 00, p381-388.

**Finite element method**

Influence Zone of Recharging-Dewatering Actions in Unconfined Aquifer, R. Revelli and L. Ridolfi, IR Mar./Apr. 00, p110-112.

**Finite elements**

Finite-Element Grid Configurations for Drains, K. C. Tarboton, P.E. and W. W. Wallender, P.E., IR July/Aug. 00, p243-249.

**Fish management**

Hydraulic Performance of Fish Bypass-Pools for Irrigation Diversion Channels, Athanasios N. Papanicolaou and Adam R. Maxwell, IR Sept./Oct. 00, p314-321.

**Flexibility**

Benefits of Flexible Irrigation Water Supply, Paul R. Cross, P.E., IR Sept./Oct. 00, p275-278.

Irrigation District Service in Western United States, C. M. Burt and S. W. Styles, IR Sept./Oct. 00, p279-282.

**Flood control**

Simultaneous Flow over and Under a Gate, Vito Ferro, IR May/June 00, p190-193.

**Flood irrigation**

Daily Evapotranspiration Prediction from Louisiana Flooded Rice Field, S. B. Shah and R. J. Edling, IR Jan./Feb. 00, p8-13.

**Flooding**

Improving Efficiency of Desalinization with Subsurface Drainage, E. G. Youngs and P. B. Leeds-Harrison, IR Nov./Dec. 00, p375-380.

**Flow measurement**

Simple Flume for Flow Measurement in Open Channel, Zohrab Samani and Henry Magallanes, IR Mar./Apr. 00, p127-129.

Theoretical End-Depth-Discharge Relationship for Free Overfall, Vito Ferro, IR Jan./Feb. 99, p40-44.

**Flow rates**

Chebyshev Solution as Aid in Computing GVF by Standard Step Method, Subhashish Dey, IR July/Aug. 00, p271-274.

**Flumes**

Simple Flume for Flow Measurement in Open Channel, Zohrab Samani and Henry Magallanes, IR Mar./Apr. 00, p127-129.

**Fluvial hydraulics**

Influence of Stream-Wise Bed Slope on Sediment Threshold under Stream Flow, Subhashish Dey and Koustuv Debnath, IR July/Aug. 00, p255-263.

**Food supply**

Water Planning for Food Production in Developing Countries by Phillip Z. Kirpich, Otto J. Helweg, IR May/June 00, p203.

**Free flow**

Discharge Characteristics of Skew Sluice Gates, Prabhata K. Swamee, Santosh K. Pathak, Talib Mansoor and Chandra Shekhar P. Ojha, IR Sept./Oct. 00, p328-334.

**Free surfaces**

Influence Zone of Recharging-Dewatering Actions in Unconfined Aquifer, R. Revelli and L. Ridolfi, IR Mar./Apr. 00, p110-112.

**Friction**

Factor *G* for Pipelines with Equally Spaced Multiple Outlets and Outflow, Arif A. Anwar, IR Jan./Feb. 99, p34-38.

**Friction factor**

Adjusted Average Correction Factors for Sprinkler Lateral, Arif A. Anwar, IR Sept./Oct. 00, p296-303.

Correction Factors for Center Pivots with End Guns, Arif A. Anwar, IR Mar./Apr. 00, p113-118.

**Furrow irrigation**

Approximating Wetted Perimeter in Power-Law Cross Section, T. S. Strelkoff and A. J. Clemmens, IR Mar./Apr. 00, p98-109.

Furrow Irrigation Performance under Spatially Varying Conditions, L. J. Schwankl, N. S. Raghuvanshi and W. W. Wallender, IR Nov./Dec. 00, p355-361.

Time Series Modeling for Predicting Spatially Variable Infiltration, L. J. Schwankl, N. S. Raghuvanshi and W. W. Wallender, IR Sept./Oct. 00, p283-287.

**Gates**

Discharge Characteristics of Skew Sluice Gates, Prabhata K. Swamee, Santosh K. Pathak, Talib Mansoor and Chandra Shekhar P. Ojha, IR Sept./Oct. 00, p328-334.

Simultaneous Flow over and Under a Gate, Vito Ferro, IR May/June 00, p190-193.

**Geometry**

Furrow Irrigation Performance under Spatially Varying Conditions, L. J. Schwankl, N. S. Raghuvanshi and W. W. Wallender, IR Nov./Dec. 00, p355-361.

Optimal Design of Parabolic-Bottomed Triangle Canals, K. Babaeyan-Koopaei, E. M. Valentine and D. C. Swailes, IR Nov./Dec. 00, p408-411.

**Grains, crops**

Evapotranspiration and Crop Coefficients of Wheat and Sorghum Climate in India, N. K. Tyagi, D. K. Sharma and S. K. Luthra, IR July/Aug. 00, p215-222.

**Granular materials**

Influence of Stream-Wise Bed Slope on Sediment Threshold under Stream Flow, Subhashish Dey and Koustuv Debnath, IR July/Aug. 00, p255-263.

**Green-Ampt model**

Infiltration of Water into Soil with Cracks, V. Novák, J. Šimunek and M. Th. van Genuchten, IR Jan./Feb. 00, p41-47.

**Grid systems**

Finite-Element Grid Configurations for Drains, K. C. Tarboton, P.E. and W. W. Wallender, P.E., IR July/Aug. 00, p243-249.

**Ground water**

Border Irrigation Field Experiment. I: Water Balance, Mathew Giffedder, Luke D. Connell and Russell G. Mein, IR Mar./Apr. 00, p85-91.

Border Irrigation Field Experiment. II: Salt Transport, Mathew Giffedder, Russell G. Mein and Luke D. Connell, IR Mar./Apr. 00, p92-97.

**Ground-water recharge**

Influence Zone of Recharging-Dewatering Actions in Unconfined Aquifer, R. Revelli and L. Ridolfi, *IR Mar./Apr. 00*, p110-112.

**Head loss**

Correction Factors for Center Pivots with End Guns, Arif A. Anwar, *IR Mar./Apr. 00*, p113-118.

**Hydraulic conductivity**

Measurement of Subsurface Unsaturated Hydraulic Conductivity, D. F. Holland, M. Yitayew and A. W. Warlick, *IR Jan./Feb. 00*, p21-27.

**Hydraulic design**

Optimal Design of Parabolic-Bottomed Triangle Canals, K. Babaeyan-Koopaei, E. M. Valentine and D. C. Swales, *IR Nov./Dec. 00*, p408-411.

**Hydraulic structures**

Design of Minimum Seepage Loss Canal Sections, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, *IR Jan./Feb. 00*, p28-32.

**Hydraulics**

Approximating Wetted Perimeter in Power-Law Cross Section, T. S. Strelkoff and A. J. Clemmens, *IR Mar./Apr. 00*, p98-109.

Chebyshev Solution as Aid in Computing GVF by Standard Step Method, Subhashish Dey, *IR July/Aug. 00*, p271-274.

Hydraulic Performance of Fish Bypass-Pools for Irrigation Diversion Channels, Athanasios N. Papanicolaou and Adam R. Maxwell, *IR Sept./Oct. 00*, p314-321.

Simple Flume for Flow Measurement in Open Channel, Zohrab Samani and Henry Magallanez, *IR Mar./Apr. 00*, p127-129.

Solution for a Stream Depletion Problem, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, *IR Mar./Apr. 00*, p125-126.

Street Storm Water Conveyance Capacity, James C. Y. Guo, *IR Mar./Apr. 00*, p119-123.

**Hydrologic models**

Estimation of Surface Volume in Hydrological Models for Border Irrigation, Joaquín Monserrat and Javier Barragán, *IR Sept./Oct. 98*, p238-247.

**Hydrology**

Estimating Evaporation from Bare or Nearly Bare Soil, R. L. Snyder, K. Bali, F. Ventura and H. Gomez-MacPherson, *IR Nov./Dec. 00*, p399-403.

**Identification**

A Priori Identifiability of Unsaturated Soil Parameters, M. S. Ghidaoui and K. S. H. Prasad, *IR May/June 00*, p163-171.

**Inertia**

Furrow Irrigation Performance under Spatially Varying Conditions, L. J. Schwankl, N. S. Raghuvanshi and W. W. Wallender, *IR Nov./Dec. 00*, p355-361.

**Infiltration**

Border Irrigation Field Experiment. I: Water Balance, Mathew Giffelder, Luke D. Connell and Russell G. Mein, *IR Mar./Apr. 00*, p85-91.

Circular Isobaric Cavity in Descending Unsaturated Flow, A. R. Kacimov, *IR May/June 00*, p172-178.

Furrow Irrigation Performance under Spatially Varying Conditions, L. J. Schwankl, N. S. Raghuvanshi and W. W. Wallender, *IR Nov./Dec. 00*, p355-361.

Infiltration of Water into Soil with Cracks, V. Novák, J. Šimunek and M. Th. van Genuchten, *IR Jan./Feb. 00*, p41-47.

Simulating Elevation and Infiltration in Level-Basin Irrigation, N. Zapata and E. Playán, *IR Mar./Apr. 00*, p78-84.

Time Series Modeling for Predicting Spatially Variable Infiltration, L. J. Schwankl, N. S. Raghuvanshi and W. W. Wallender, *IR Sept./Oct. 00*, p283-287.

**Institutions**

Problems of Irrigation in Developing Countries, Phillip Z. Kirpich, Dorota Z. Haman and Stuart W. Styles, *IR Jan./Feb. 99*, p1-6.

**Interactions**

Influence Zone of Recharging-Dewatering Actions in Unconfined Aquifer, R. Revelli and L. Ridolfi, *IR Mar./Apr. 00*, p110-112.

Operational Sensitivity of Irrigation Structures, D. Renault, *IR May/June 00*, p157-162.

Solution for a Stream Depletion Problem, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, *IR Mar./Apr. 00*, p125-126.

**International development**

Water Distribution Management in Small West African Canal Systems, W. Ray Norman, M. Todd Walter, Michael F. Walter and Erin S. Brooks, *IR Sept./Oct. 00*, p304-313.

**Irrigation**

Circular Isobaric Cavity in Descending Unsaturated Flow, A. R. Kacimov, *IR May/June 00*, p172-178.

Infiltration of Water into Soil with Cracks, V. Novák, J. Šimunek and M. Th. van Genuchten, *IR Jan./Feb. 00*, p41-47.

Optimal Design of Tapered Microirrigation Submain Manifolds, Ajai Singh, R. P. Singh, P. S. Mahar and K. K. Singh, *IR Nov./Dec. 00*, p371-374.

**Irrigation districts**

Irrigation District Service in Western United States, C. M. Burt and S. W. Styles, *IR Sept./Oct. 00*, p279-282.

Simulating Spatially Distributed Water and Salt Balances, L. Mateos, C. A. Young, W. W. Wallender and H. L. Carlson, *IR Sept./Oct. 00*, p288-295.

**Irrigation efficiency**

Benefits of Flexible Irrigation Water Supply, Paul R. Cross, P.E., *IR Sept./Oct. 00*, p275-278.

Water Distribution Management in Small West African Canal Systems, W. Ray Norman, M. Todd Walter, Michael F. Walter and Erin S. Brooks, *IR Sept./Oct. 00*, p304-313.

Water Reuse in Sequential Basin Irrigation, N. Zapata, E. Playán and J. M. Faci, *IR Nov./Dec. 00*, p362-370.

**Irrigation practices**

Problems of Irrigation in Developing Countries, Phillip Z. Kirpich, Dorota Z. Haman and Stuart W. Styles, *IR Jan./Feb. 99*, p1-6.

Soil Salinity Modeling Over Shallow Water Table. II: Application of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, *IR July/Aug. 00*, p234-242.

Water Distribution Management in Small West African Canal Systems, W. Ray Norman, M. Todd Walter, Michael F. Walter and Erin S. Brooks, *IR Sept./Oct. 00*, p304-313.

**Irrigation scheduling**

Evapotranspiration and Crop Coefficients of Wheat and Sorghum Climate in India, N. K. Tyagi, D. K. Sharma and S. K. Luthra, *IR July/Aug. 00*, p215-222.

**Irrigation systems**

Comprehensive Design of Minimum Cost Irrigation Canal Sections, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, *IR Sept./Oct. 00*, p322-327.

Hydraulic Performance of Fish Bypass-Pools for Irrigation Diversion Channels, Athanasios N. Papanicolaou and Adam R. Maxwell, *IR Sept./Oct. 00*, p314-321.

Operational Sensitivity of Irrigation Structures, D. Renault, *IR May/June 00*, p157-162.

**Irrigation water**

Field-Scale Observations of Arsenic and Boron in Soil Irrigated with Drainwater, B. R. Faulkner and J. C. Guitjens, *IR May/June 00*, p186-189.

Irrigation District Service in Western United States, C. M. Burt and S. W. Styles, *IR Sept./Oct. 00*, p279-282.

Optimal Irrigation Allocation: A Multilevel Approach, Sabu Paul, Sudhinda Nath Panda and D. Nagesh Kumar, *IR May/June 00*, p149-156.

Solute Transport Modeling in Overland Flow Applied to Fertigation, P. García-Navarro, E. Playán and N. Zapata, *IR Jan./Feb. 00*, p33-40.

**Lagrange's equations**

Optimal Design of Parabolic-Bottomed Triangle Canals, K. Babaeyan-Koopaei, E. M. Valentine and D. C. Swales, *IR Nov./Dec. 00*, p408-411.

**Laterals**

Adjusted Average Correction Factors for Sprinkler Laterals, Arif A. Anwar, *IR Sept./Oct. 00*, p296-303.

Inlet Pressure for Horizontal Tapered Laterals, Arif A. Anwar, *IR Jan./Feb. 00*, p57-63.

**Layered soils**

Transient Ditch Drainage of Two-Layered Soil, H. C. Sharma, P. N. Kapoor and H. S. Chauhan, *IR Jan./Feb. 00*, p14-20.

**Leaching**

Improving Efficiency of Desalinization with Subsurface Drainage, E. G. Youngs and P. B. Leeds-Harrison, *IR Nov./Dec. 00*, p375-380.

**Location**

Optimization-Based Simulation and Design of Tile Drainage Systems, Amlan Das, *IR Nov./Dec. 00*, p381-388.

Rate and Volume of Stream Depletion Due to Pumping, Sushil K. Singh, *IR Sept./Oct. 00*, p336-338.

**Losses**

Design of Minimum Seepage Loss Canal Sections, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, *IR Jan./Feb. 00*, p28-32.

**Louisiana**

Daily Evapotranspiration Prediction from Louisiana Flooded Rice Field, S. B. Shah and R. J. Edling, *IR Jan./Feb. 00*, p8-13.

**Lysimeters**

Evapotranspiration and Crop Coefficients of Wheat and Sorghum Climate in India, N. K. Tyagi, D. K. Sharma and S. K. Luthra, *IR July/Aug. 00*, p215-222.

**Maintenance**

Sprinkler Head Maintenance Effects on Water Application Uniformity, Michael J. Louie and John S. Selker, *IR May/June 00*, p142-148.

**Manifolds**

Optimal Design of Tapered Microirrigation Submain Manifolds, Ajai Singh, R. P. Singh, P. S. Mahar and K. K. Singh, *IR Nov./Dec. 00*, p371-374.

**Measuring instruments**

Simultaneous Flow over and Under a Gate, Vito Ferro, *IR May/June 00*, p190-193.

**Methodology**

Simple Method for Confined-Aquifer Parameter Estimation, Sushil K. Singh, *IR Nov./Dec. 00*, p404-407.

**Modeling**

Daily Evapotranspiration Prediction from Louisiana Flooded Rice Field, S. B. Shah and R. J. Edling, *IR Jan./Feb. 00*, p8-13.

Furrow Irrigation Performance under Spatially Varying Conditions, L. J. Schwankl, N. S. Raghuvanshi and W. W. Wallender, *IR Nov./Dec. 00*, p355-361.

Model of Water Application under Pivotal Sprinkler. I: Theoretical Grounds, Yves Le Gat and Bruno Molle, *IR Nov./Dec. 00*, p343-347.

**Neural networks**

Estimation of FAO Blaney-Criddle *b* Factor by RBF Network, Slavisa Trajkovic, Mimir Stankovic and Branimir Todorovic, *IR July/Aug. 00*, p268-270.

**Nitrates**

Nitrate Electromigration in Sandy Soil: Closed System Response, Naglaa Eid, Donald Slack and Dennis Larson, *IR Nov./Dec. 00*, p389-397.

**Nonlinear analysis**

Comprehensive Design of Minimum Cost Irrigation Canal Sections, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, *IR Sept./Oct. 00*, p322-327.

Optimal Channel Cross Section with Composite Roughness, Amlan Das, *IR Jan./Feb. 00*, p68-72.

**Numerical analysis**

Chebyshev Solution as Aid in Computing GVF by Standard Step Method, Subhashish Dey, *IR July/Aug. 00*, p271-274.

Numerical Solution of 2D Free Surface Flow to Ditch Drains in Anisotropic Soils, Vinod Kumar, C. S. Jaiswal and H. S. Chauhan, *IR July/Aug. 00*, p250-254.

**Numerical calculations**

Simple Approximation for Flowing Well Problem, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, *IR Jan./Feb. 00*, p65-67.

**Numerical models**

Finite-Element Grid Configurations for Drains, K. C. Tarboton, P.E. and W. W. Wallender, P.E., *IR July/Aug. 00*, p243-249.

Soil Salinity Modeling Over Shallow Water Table. I: Validation of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, *IR July/Aug. 00*, p223-233.

Soil Salinity Modeling Over Shallow Water Table. II: Application of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, *IR July/Aug. 00*, p234-242.

**One dimensional flow**

Chebyshev Solution as Aid in Computing GVF by Standard Step Method, Subhashish Dey, *IR July/Aug. 00*, p271-274.

**Open channels**

Approximating Wetted Perimeter in Power-Law Cross Section, T. S. Strelkoff and A. J. Clemmens, IR Mar./Apr. 00, p98-109.

Chebyshev Solution as Aid in Computing GVF by Standard Step Method, Subhashish Dey, IR July/Aug. 00, p271-274.

Optimal Channel Cross Section with Composite Roughness, Amlan Das, IR Jan./Feb. 00, p68-72.

Simple Flume for Flow Measurement in Open Channel, Zohrab Samani and Henry Magallanez, IR Mar./Apr. 00, p127-129.

**Operation**

Operational Sensitivity of Irrigation Structures, D. Renault, IR May/June 00, p157-162.

**Optimal design**

Optimal Channel Cross Section with Composite Roughness, Amlan Das, IR Jan./Feb. 00, p68-72.

Optimal Design of Parabolic-Bottomed Triangle Canals, K. Bahaayan-Koopaei, E. M. Valentine and D. C. Swales, IR Nov./Dec. 00, p408-411.

Optimal Design of Tapered Microirrigation Submain Manifolds, Ajai Singh, R. P. Singh, P. S. Mahar and K. K. Singh, IR Nov./Dec. 00, p371-374.

Optimization-Based Simulation and Design of Tile Drainage Systems, Amlan Das, IR Nov./Dec. 00, p381-388.

**Optimization**

Design of Minimum Seepage Loss Canal Sections, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Jan./Feb. 00, p28-32.

Optimal Irrigation Allocation: A Multilevel Approach, Sabu Paul, Sudhendra Nath Panda and D. Nagesh Kumar, IR May/June 00, p149-156.

Rate and Volume of Stream Depletion Due to Pumping, Sushil K. Singh, IR Sept./Oct. 00, p336-338.

**Optimization models**

Optimization-Based Simulation and Design of Tile Drainage Systems, Amlan Das, IR Nov./Dec. 00, p381-388.

**Organizational policy**

Problems of Irrigation in Developing Countries, Phillip Z. Kirpich, Dorota Z. Haman and Stuart W. Styles, IR Jan./Feb. 99, p1-6.

**Outflows**

Adjusted Average Correction Factors for Sprinkler Laterals, Arif A. Anwar, IR Sept./Oct. 00, p296-303.

Factor G for Pipelines with Equally Spaced Multiple Outlets and Outflow, Arif A. Anwar, IR Jan./Feb. 99, p34-38.

**Overland flow**

Solute Transport Modeling in Overland Flow Applied to Fertilization, P. Garcia-Navarro, E. Playán and N. Zapata, IR Jan./Feb. 00, p33-40.

**Parameters**

A Priori Identifiability of Unsaturated Soil Parameters, M. S. Ghidaoui and K. S. H. Prasad, IR May/June 00, p163-171.

Simple Method for Confined-Aquifer Parameter Estimation, Sushil K. Singh, IR Nov./Dec. 00, p404-407.

**Peer review**

Journal Needs More New Referees, John C. Guitjens, IR Mar./Apr. 00, p77.

**Permeameters**

Measurement of Subsurface Unsaturated Hydraulic Conductivity, D. F. Holland, M. Yitayew and A. W. Warrick, IR Jan./Feb. 00, p21-27.

**Perturbation**

Operational Sensitivity of Irrigation Structures, D. Renault, IR May/June 00, p157-162.

**pH**

Field-Scale Observations of Arsenic and Boron in Soil Irrigated with Drainwater, B. R. Faulkner and J. C. Guitjens, IR May/June 00, p186-189.

**Pipeline design**

Factor G for Pipelines with Equally Spaced Multiple Outlets and Outflow, Arif A. Anwar, IR Jan./Feb. 99, p34-38.

**Ponding**

Improving Efficiency of Desalinization with Subsurface Drainage, E. G. Youngs and P. B. Leeds-Harrison, IR Nov./Dec. 00, p375-380.

**Pools**

Hydraulic Performance of Fish Bypass-Pools for Irrigation Diversion Channels, Athanasios N. Papanicolaou and Adam R. Maxwell, IR Sept./Oct. 00, p314-321.

**Porous media flow**

Optimization-Based Simulation and Design of Tile Drainage Systems, Amlan Das, IR Nov./Dec. 00, p381-388.

**Predictions**

Time Series Modeling for Predicting Spatially Variable Infiltration, L. J. Schwankl, N. S. Raghuvanshi and W. W. Wallender, IR Sept./Oct. 00, p283-287.

**Pressure distribution**

Correction Factors for Center Pivots with End Guns, Arif A. Anwar, IR Mar./Apr. 00, p113-118.

**Pressures**

Adjusted Average Correction Factors for Sprinkler Laterals, Arif A. Anwar, IR Sept./Oct. 00, p296-303.

Inlet Pressure for Horizontal Tapered Laterals, Arif A. Anwar, IR Jan./Feb. 00, p57-63.

**Probability**

Model of Water Application under Pivot Sprinkler. II: Calibration and Results, Bruno Molle and Yves Le Gat, IR Nov./Dec. 00, p348-354.

**Probability distribution**

Model of Water Application under Pivot Sprinkler. I: Theoretical Grounds, Yves Le Gat and Bruno Molle, IR Nov./Dec. 00, p343-347.

**Pumping**

Rate and Volume of Stream Depletion Due to Pumping, Sushil K. Singh, IR Sept./Oct. 00, p336-338.

**Rainfall-runoff relationships**

Theoretical Justification of SCS Method for Runoff Estimation, Bofu Yu, IR Nov./Dec. 98, p306-310.

**Rates**

Rate and Volume of Stream Depletion Due to Pumping, Sushil K. Singh, IR Sept./Oct. 00, p336-338.

**Recirculation**

Hydraulic Performance of Fish Bypass-Pools for Irrigation Diversion Channels, Athanasios N. Papanicolaou and Adam R. Maxwell, IR Sept./Oct. 00, p314-321.

**Regional analysis**

Adjusting Temperature Parameters to Reflect Well-Watered Conditions, B. Temesgen, R. G. Allen and D. T. Jensen, IR Jan./Feb. 99, p26-33.

**Regression analysis**

Estimation of FAO Blaney-Cridle *b* Factor by RBF Network, Slavisa Trajkovic, Miodir Stankovic and Branimir Todorovic, IR July/Aug. 00, p268-270.

**Reviewing**

Journal Needs More New Referees, John C. Guitjens, IR Mar./Apr. 00, p77.

**Reviews**

Water Planning for Food Production in Developing Countries by Phillip Z. Kirpich, Otto J. Helweg, IR May/June 00, p203.

**Rice**

Daily Evapotranspiration Prediction from Louisiana Flooded Rice Field, S. B. Shah and R. J. Edling, IR Jan./Feb. 00, p8-13.

**Roughness**

Furrow Irrigation Performance under Spatially Varying Conditions, L. J. Schwankl, N. S. Raghuvanshi and W. W. Wallender, IR Nov./Dec. 00, p355-361.

Optimal Channel Cross Section with Composite Roughness, Amlan Das, IR Jan./Feb. 00, p68-72.

**Routes**

Optimal Design of Tapered Microirrigation Submain Manifolds, Ajai Singh, R. P. Singh, P. S. Mahar and K. K. Singh, IR Nov./Dec. 00, p371-374.

**Runoff**

Theoretical Justification of SCS Method for Runoff Estimation, Bofu Yu, IR Nov./Dec. 98, p306-310.

**Runoff forecasting**

Theoretical Justification of SCS Method for Runoff Estimation, Bofu Yu, IR Nov./Dec. 98, p306-310.

**Salinity**

Border Irrigation Field Experiment. II: Salt Transport, Mathew Giffedder, Russell G. Mein and Luke D. Connell, IR Mar./Apr. 00, p92-97.

Soil Salinity Modeling Over Shallow Water Table. I: Validation of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p223-233.

Soil Salinity Modeling Over Shallow Water Table. II: Application of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p234-242.

**Salt balance**

Border Irrigation Field Experiment. II: Salt Transport, Mathew Giffedder, Russell G. Mein and Luke D. Connell, IR Mar./Apr. 00, p92-97.

Simulating Spatially Distributed Water and Salt Balances, L. Mateos, C. A. Young, W. W. Wallender and H. L. Carlson, IR Sept./Oct. 00, p288-295.

**Salt removal**

Improving Efficiency of Desalinization with Subsurface Drainage, E. G. Youngs and P. B. Leeds-Harrison, IR Nov./Dec. 00, p375-380.

**Sand**

Nitrate Electromigration in Sandy Soil: Closed System Response, Naglaa Eid, Donald Slack and Dennis Larson, IR Nov./Dec. 00, p389-397.

**Seasonal variations**

Adjusting Temperature Parameters to Reflect Well-Watered Conditions, B. Temesgen, R. G. Allen and D. T. Jensen, IR Jan./Feb. 99, p26-33.

Optimal Irrigation Allocation: A Multilevel Approach, Sabu Paul, Sudhendra Nath Panda and D. Nagesh Kumar, IR May/June 00, p149-156.

**Sediment transport**

Influence of Stream-Wise Bed Slope on Sediment Threshold under Stream Flow, Subhashish Dey and Koustav Debnath, IR July/Aug. 00, p255-263.

**Seepage**

Circular Isobaric Cavity in Descending Unsaturated Flow, A. R. Kacimov, IR May/June 00, p172-178.

Design of Minimum Seepage Loss Canal Sections, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Jan./Feb. 00, p28-32.

**Sensitivity analysis**

Operational Sensitivity of Irrigation Structures, D. Renault, IR May/June 00, p157-162.

**Sewer design**

Supercritical Flow in Bend Manhole, Giuseppe Del Giudice, Corrado Gisonni and Willi H. Hager, IR Jan./Feb. 00, p48-56.

**Shallow water**

Border Irrigation Field Experiment. I: Water Balance, Mathew Giffedder, Luke D. Connell and Russell G. Mein, IR Mar./Apr. 00, p85-91.

Border Irrigation Field Experiment. II: Salt Transport, Mathew Giffedder, Russell G. Mein and Luke D. Connell, IR Mar./Apr. 00, p92-97.

Soil Salinity Modeling Over Shallow Water Table. I: Validation of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p223-233.

Soil Salinity Modeling Over Shallow Water Table. II: Application of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p234-242.

**Shape**

Comprehensive Design of Minimum Cost Irrigation Canal Sections, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Sept./Oct. 00, p322-327.

Stilling Basins for Pipe Outlets Using Wedge-Shaped Splitter Block, D. V. S. Verma and Arun Goel, IR May/June 00, p179-184.

**Simulation**

Soil Salinity Modeling Over Shallow Water Table. I: Validation of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p223-233.

**Simulation models**

Model of Water Application under Pivot Sprinkler. II: Calibration and Results, Bruno Molle and Yves Le Gat, IR Nov./Dec. 00, p348-354.

Simulating Elevation and Infiltration in Level-Basin Irrigation, N. Zapata and E. Playán, IR Mar./Apr. 00, p78-84.

**Size**

Stilling Basins for Pipe Outlets Using Wedge-Shaped Splitter Block, D. V. S. Verma and Arun Goel, IR May/June 00, p179-184.



**Skewed structures**

Discharge Characteristics of Skew Sluice Gates, Prabhata K. Swamee, Santosh K. Pathak, Talib Mansoor and Chandra Shekhar P. Ojha, IR Sept./Oct. 00, p328-334.

**Soil properties**

Soil Salinity Modeling Over Shallow Water Table. I: Validation of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p223-233.

Soil Salinity Modeling Over Shallow Water Table. II: Application of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p234-242.

**Soil water**

Field-Scale Observations of Arsenic and Boron in Soil Irrigated with Drainwater, B. R. Faulkner and J. C. Guitjens, IR May/June 00, p186-189.

Plant Water Use and Crop Curves for Hybrid Poplars, David J. Gochis and Richard H. Cuenca, IR July/Aug. 00, p206-214.

**Soil water movement**

Infiltration of Water into Soil with Cracks, V. Novák, J. Simunek and M. Th. van Genuchten, IR Jan./Feb. 00, p41-47.

**Soils, unsaturated**

A Priori Identifiability of Unsaturated Soil Parameters, M. S. Ghidaoui and K. S. H. Prasad, IR May/June 00, p163-171.

**Solar radiation**

Estimating Solar Radiation and Evapotranspiration Using Minimum Climatological Data, Zohrab Samani, IR July/Aug. 00, p265-267.

**Solutes**

Finite-Element Grid Configurations for Drains, K. C. Tarboton, P.E. and W. W. Wallender, P.E., IR July/Aug. 00, p243-249.

**Spatial data**

Simulating Elevation and Infiltration in Level-Basin Irrigation, N. Zapata and E. Playán, IR Mar./Apr. 00, p78-84.

**Spatial distribution**

Model of Water Application under Pivot Sprinkler. II: Calibration and Results, Bruno Molle and Yves Le Gat, IR Nov./Dec. 00, p348-354.

**Spillways**

Factor G for Pipelines with Equally Spaced Multiple Outlets and Outflow, Arif A. Anwar, IR Jan./Feb. 99, p34-38.

Stilling Basins for Pipe Outlets Using Wedge-Shaped Splitter Block, D. V. S. Verma and Arun Goel, IR May/June 00, p179-184.

**Sprinkler irrigation**

Factor G for Pipelines with Equally Spaced Multiple Outlets and Outflow, Arif A. Anwar, IR Jan./Feb. 99, p34-38.

Inlet Pressure for Horizontal Tapered Laterals, Arif A. Anwar, IR Jan./Feb. 00, p57-63.

Model of Water Application under Pivot Sprinkler. I: Theoretical Grounds, Yves Le Gat and Bruno Molle, IR Nov./Dec. 00, p343-347.

Model of Water Application under Pivot Sprinkler. II: Calibration and Results, Bruno Molle and Yves Le Gat, IR Nov./Dec. 00, p348-354.

Sprinkler Head Maintenance Effects on Water Application Uniformity, Michael J. Louie and John S. Selker, IR May/June 00, p142-148.

**Sprinklers**

Adjusted Average Correction Factors for Sprinkler Laterals, Arif A. Anwar, IR Sept./Oct. 00, p296-303.

Sprinkler Head Maintenance Effects on Water Application Uniformity, Michael J. Louie and John S. Selker, IR May/June 00, p142-148.

**Stilling basins**

Stilling Basins for Pipe Outlets Using Wedge-Shaped Splitter Block, D. V. S. Verma and Arun Goel, IR May/June 00, p179-184.

**Storm runoff**

Street Storm Water Conveyance Capacity, James C. Y. Guo, IR Mar./Apr. 00, p119-123.

**Stormwater management**

Street Storm Water Conveyance Capacity, James C. Y. Guo, IR Mar./Apr. 00, p119-123.

**Streambeds**

Influence of Stream-Wise Bed Slope on Sediment Threshold under Stream Flow, Subhashish Dey and Koustuv Debnath, IR July/Aug. 00, p255-263.

**Streamflow**

Influence of Stream-Wise Bed Slope on Sediment Threshold under Stream Flow, Subhashish Dey and Koustuv Debnath, IR July/Aug. 00, p255-263.

Solution for a Stream Depletion Problem, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Mar./Apr. 00, p125-126.

**Streams**

Rate and Volume of Stream Depletion Due to Pumping, Sushil K. Singh, IR Sept./Oct. 00, p336-338.

**Streets**

Street Storm Water Conveyance Capacity, James C. Y. Guo, IR Mar./Apr. 00, p119-123.

**Structures**

Operational Sensitivity of Irrigation Structures, D. Renault, IR May/June 00, p157-162.

**Subcritical flow**

Theoretical End-Depth-Discharge Relationship for Free Overfall, Vito Ferro, IR Jan./Feb. 99, p40-44.

**Submerged flow**

Discharge Characteristics of Skew Sluice Gates, Prabhata K. Swamee, Santosh K. Pathak, Talib Mansoor and Chandra Shekhar P. Ojha, IR Sept./Oct. 00, p328-334.

**Subsurface drainage**

Transient Ditch Drainage of Two-Layered Soil, H. C. Sharma, P. N. Kapoor and H. S. Chauhan, IR Jan./Feb. 00, p14-20.

**Subsurface drains**

Improving Efficiency of Desalinization with Subsurface Drainage, E. G. Youngs and P. B. Leeds-Harrison, IR Nov./Dec. 00, p375-380.

**Supercritical flow**

Supercritical Flow in Bend Manhole, Giuseppe Del Giudice, Corrado Gisonni and Willi H. Hager, IR Jan./Feb. 00, p48-56.

Theoretical End-Depth-Discharge Relationship for Free Overfall, Vito Ferro, IR Jan./Feb. 99, p40-44.

**Surface irrigation**

Estimation of Surface Volume in Hydrological Models for Border Irrigation, Joaquín Monserrat and Javier Barragán, IR Sept./Oct. 98, p238-247.

Simulating Elevation and Infiltration in Level-Basin Irrigation, N. Zapata and E. Playán, IR Mar./Apr. 00, p78-84.

**Surface runoff**

Water Reuse in Sequential Basin Irrigation, N. Zapata, E. Playán and J. M. Faci, IR Nov./Dec. 00, p362-370.

**Surface waters**

Estimation of Surface Volume in Hydrological Models for Border Irrigation, Joaquín Monserrat and Javier Barragán, IR Sept./Oct. 98, p238-247.

**Taper**

Inlet Pressure for Horizontal Tapered Laterals, Arif A. Anwar, IR Jan./Feb. 00, p57-63.

Optimal Design of Tapered Microirrigation Submain Manifolds, Ajai Singh, R. P. Singh, P. S. Mahar and K. K. Singh, IR Nov./Dec. 00, p371-374.

**Temperature effects**

Estimating Solar Radiation and Evapotranspiration Using Minimum Climatological Data, Zohrab Samani, IR July/Aug. 00, p265-267.

**Time series analysis**

Time Series Modeling for Predicting Spatially Variable Infiltration, L. J. Schwankl, N. S. Raghuvanshi and W. W. Wallender, IR Sept./Oct. 00, p283-287.

**Transient flow**

Finite-Element Grid Configurations for Drains, K. C. Tarboton, P.E. and W. W. Wallender, P.E., IR July/Aug. 00, p243-249.

**Transport phenomena**

Soil Salinity Modeling Over Shallow Water Table. I: Validation of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p223-233.

Soil Salinity Modeling Over Shallow Water Table. II: Application of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p234-242.

Solute Transport Modeling in Overland Flow Applied to Fertigation, P. García-Navarro, E. Playán and N. Zapata, IR Jan./Feb. 00, p33-40.

**Trees**

Plant Water Use and Crop Curves for Hybrid Poplars, David J. Gochis and Richard H. Cuenca, IR July/Aug. 00, p206-214.

**Trickle irrigation**

Factor G for Pipelines with Equally Spaced Multiple Outlets and Outflow, Arif A. Anwar, IR Jan./Feb. 99, p34-38.

Inlet Pressure for Horizontal Tapered Laterals, Arif A. Anwar, IR Jan./Feb. 00, p57-63.

Plant Water Use and Crop Curves for Hybrid Poplars, David J. Gochis and Richard H. Cuenca, IR July/Aug. 00, p206-214.

**Turbulence**

Hydraulic Performance of Fish Bypass-Pools for Irrigation Diversion Channels, Athanasios N. Papanicolaou and Adam R. Maxwell, IR Sept./Oct. 00, p314-321.

**Two-dimensional flow**

Numerical Solution of 2D Free Surface Flow to Ditch Drains in Anisotropic Soils, Vinod Kumar, C. S. Jaiswal and H. S. Chauhan, IR July/Aug. 00, p250-254.

**Uniform flow**

Design of Minimum Seepage Loss Canal Sections, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Jan./Feb. 00, p28-32.

**Unsaturated flow**

Circular Isobaric Cavity in Descending Unsaturated Flow, A. R. Kacimov, IR May/June 00, p172-178.

Measurement of Subsurface Unsaturated Hydraulic Conductivity, D. F. Holland, M. Yitayew and A. W. Warwick, IR Jan./Feb. 00, p21-27.

**Unsteady flow**

Influence Zone of Recharging-Dewatering Actions in Unconfined Aquifer, R. Revelli and L. Ridolfi, IR Mar./Apr. 00, p110-112.

**Vadose zone**

Measurement of Subsurface Unsaturated Hydraulic Conductivity, D. F. Holland, M. Yitayew and A. W. Warwick, IR Jan./Feb. 00, p21-27.

**Validation**

Soil Salinity Modeling Over Shallow Water Table. I: Validation of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p223-233.

**Variability**

Chebyshev Solution as Aid in Computing GVF by Standard Step Method, Subhashish Dey, IR July/Aug. 00, p271-274.

Simulating Elevation and Infiltration in Level-Basin Irrigation, N. Zapata and E. Playán, IR Mar./Apr. 00, p78-84.

**Velocity**

Street Storm Water Conveyance Capacity, James C. Y. Guo, IR Mar./Apr. 00, p119-123.

**Volume measure**

Estimation of Surface Volume in Hydrological Models for Border Irrigation, Joaquín Monserrat and Javier Barragán, IR Sept./Oct. 98, p238-247.

Rate and Volume of Stream Depletion Due to Pumping, Sushil K. Singh, IR Sept./Oct. 00, p336-338.

**Water balance**

Border Irrigation Field Experiment. I: Water Balance, Mathew Giffedder, Luke D. Connell and Russell G. Mein, IR Mar./Apr. 00, p85-91.

Daily Evapotranspiration Prediction from Louisiana Flooded Rice Field, S. B. Shah and R. J. Edling, IR Jan./Feb. 00, p8-13.

Estimating Evaporation from Bare or Nearly Bare Soil, R. L. Snyder, K. Bali, F. Ventura and H. Gomez-MacPherson, IR Nov./Dec. 00, p399-403.

Simulating Spatially Distributed Water and Salt Balances, L. Mateos, C. A. Young, W. W. Wallender and H. L. Carlson, IR Sept./Oct. 00, p288-295.

**Water conservation**

Simple Flume for Flow Measurement in Open Channel, Zohrab Samani and Henry Magallanes, IR Mar./Apr. 00, p127-129.

**Water consumption**

Simulating Spatially Distributed Water and Salt Balances, L. Mateos, C. A. Young, W. W. Wallender and H. L. Carlson, IR Sept./Oct. 00, p288-295.

**Water discharge**

Solution for a Stream Depletion Problem, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Mar./Apr. 00, p125-126.

**Water distribution**

Irrigation District Service in Western United States, C. M. Burt and S. W. Styles, IR Sept./Oct. 00, p279-282.

Model of Water Application under Pivot Sprinkler. I: Theoretical Grounds, Yves Le Gat and Bruno Molle, IR Nov./Dec. 00, p343-347.

Model of Water Application under Pivot Sprinkler. II: Calibration and Results, Bruno Molle and Yves Le Gat, IR Nov./Dec. 00, p348-354.

Sprinkler Head Maintenance Effects on Water Application Uniformity, Michael J. Louie and John S. Selker, IR May/June 00, p142-148.

Water Distribution Management in Small West African Canal Systems, W. Ray Norman, M. Todd Walter, Michael F. Walter and Erin S. Brooks, IR Sept./Oct. 00, p304-313.

**Water flow**

Measurement of Subsurface Unsaturated Hydraulic Conductivity, D. F. Holland, M. Yitayew and A. W. Warlick, IR Jan./Feb. 00, p21-27.

Simple Approximation for Flowing Well Problem, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Jan./Feb. 00, p65-67.

**Water management**

Optimal Irrigation Allocation: A Multilevel Approach, Sabu Paul, Sudhindra Nath Panda and D. Nagesh Kumar, IR May/June 00, p149-156.

Sprinkler Head Maintenance Effects on Water Application Uniformity, Michael J. Louie and John S. Selker, IR May/June 00, p142-148.

**Water plans**

Water Planning for Food Production in Developing Countries by Phillip Z. Kirpich, Otto J. Helweg, IR May/June 00, p203.

**Water pricing**

Irrigation District Service in Western United States, C. M. Burt and S. W. Styles, IR Sept./Oct. 00, p279-282.

**Water resources management**

Water Planning for Food Production in Developing Countries by Phillip Z. Kirpich, Otto J. Helweg, IR May/June 00, p203.

**Water reuse**

Simulating Spatially Distributed Water and Salt Balances, L. Mateos, C. A. Young, W. Wallender and H. L. Carlson, IR Sept./Oct. 00, p288-295.

Water Reuse in Sequential Basin Irrigation, N. Zapata, E. Playán and J. M. Faci, IR Nov./Dec. 00, p362-370.

**Water supply**

Benefits of Flexible Irrigation Water Supply, Paul R. Cross, P.E., IR Sept./Oct. 00, p275-278.

**Water supply systems**

Irrigation District Service in Western United States, C. M. Burt and S. W. Styles, IR Sept./Oct. 00, p279-282.

Water Distribution Management in Small West African Canal Systems, W. Ray Norman, M. Todd Walter, Michael F. Walter and Erin S. Brooks, IR Sept./Oct. 00, p304-313.

**Water table**

Soil Salinity Modeling Over Shallow Water Table. I: Validation of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p223-233.

Soil Salinity Modeling Over Shallow Water Table. II: Application of LEACHC, R. Ali, R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p234-242.

Transient Ditch Drainage of Two-Layered Soil, H. C. Sharma, P. N. Kapoor and H. S. Chauhan, IR Jan./Feb. 00, p14-20.

**Water use**

Long-Term Evapotranspiration from Coastal Avocado/Citrus Orchard, Mark E. Grismer, IR Jan./Feb. 00, p1-7.

Plant Water Use and Crop Curves for Hybrid Poplars, David J. Gochis and Richard H. Cuenca, IR July/Aug. 00, p206-214.

**Waves**

Supercritical Flow in Bend Manhole, Giuseppe Del Giudice, Corrado Gisonni and Willi H. Hager, IR Jan./Feb. 00, p48-56.

**Weirs**

Simultaneous Flow over and Under a Gate, Vito Ferro, IR May/June 00, p190-193.

**Wells**

Rate and Volume of Stream Depletion Due to Pumping, Sushil K. Singh, IR Sept./Oct. 00, p336-338.

Simple Approximation for Flowing Well Problem, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Jan./Feb. 00, p65-67.

Solution for a Stream Depletion Problem, Prabhata K. Swamee, Govinda C. Mishra and Bhagu R. Chahar, IR Mar./Apr. 00, p125-126.

**Wind forces**

Model of Water Application under Pivot Sprinkler. I: Theoretical Grounds, Yves Le Gat and Bruno Molle, IR Nov./Dec. 00, p343-347.

Model of Water Application under Pivot Sprinkler. II: Calibration and Results, Bruno Molle and Yves Le Gat, IR Nov./Dec. 00, p348-354.

## AUTHOR INDEX

- Ali, R.**  
Soil Salinity Modeling Over Shallow Water Table. I: Validation of LEACHC, with R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p223-233  
Soil Salinity Modeling Over Shallow Water Table. II: Application of LEACHC, with R. L. Elliott, J. E. Ayars and E. W. Stevens, IR July/Aug. 00, p234-242
- Allen, R. G.**  
see Temesgen, B., IR Jan./Feb. 99, p26-33
- Anwar, Arif A.**  
Adjusted Average Correction Factors for Sprinkler Laterals, IR Sept./Oct. 00, p296-303  
Correction Factors for Center Pivots with End Guns, IR Mar./Apr. 00, p113-118  
Factor G for Pipelines with Equally Spaced Multiple Outlets and Outflow, IR Jan./Feb. 99, p34-38  
disc: Patrick J. Purcell, IR Mar./Apr. 00, p138-139  
clo: IR Mar./Apr. 00, p139-140  
Inlet Pressure for Horizontal Tapered Laterals, IR Jan./Feb. 00, p57-63
- Ayars, J. E.**  
see Ali, R., IR July/Aug. 00, p223-233  
see Ali, R., IR July/Aug. 00, p234-242
- Babaeian-Koopaei, K.**  
Optimal Design of Parabolic-Bottomed Triangle Canals, with E. M. Valentine and D. C. Swales, IR Nov./Dec. 00, p408-411
- Bali, K.**  
see Snyder, R. L., IR Nov./Dec. 00, p399-403
- Barragan, Javier**  
see Monserrat, Joaquin, IR Sept./Oct. 98, p238-247
- Brooks, Erin S.**  
see Norman, W. Ray, IR Sept./Oct. 00, p304-313
- Burt, C. M.**  
Irrigation District Service in Western United States, with S. W. Styles, IR Sept./Oct. 00, p279-282
- Burt, Charles M.**  
see Plusquellec, Herve, (disc), IR Jan./Feb. 99, p1-6
- Carlson, H. L.**  
see Mateos, L., IR Sept./Oct. 00, p288-295
- Chahar, Bhagu R.**  
see Swamee, Prabhata K., IR Jan./Feb. 00, p28-32  
see Swamee, Prabhata K., IR Jan./Feb. 00, p65-67  
see Swamee, Prabhata K., IR Mar./Apr. 00, p125-126  
see Swamee, Prabhata K., IR Sept./Oct. 00, p322-327
- Chauhan, H. S.**  
see Kumar, Vinod, IR July/Aug. 00, p250-254  
see Sharma, H. C., IR Jan./Feb. 00, p14-20
- Clemmens, A. J.**  
see Strelkoff, T. S., IR Mar./Apr. 00, p98-109
- Connell, Luke D.**  
see Gilfedder, Mathew, IR Mar./Apr. 00, p85-91  
see Gilfedder, Mathew, IR Mar./Apr. 00, p92-97
- Cross, Paul R., P.E.**  
Benefits of Flexible Irrigation Water Supply, IR Sept./Oct. 00, p275-278
- Cuenca, Richard H.**  
see Gochis, David J., IR July/Aug. 00, p206-214
- Das, Amlan**  
Optimal Channel Cross Section with Composite Roughness, IR Jan./Feb. 00, p68-72  
Optimization-Based Simulation and Design of Tile Drainage Systems, IR Nov./Dec. 00, p381-388
- Debnath, Koustuv**  
see Dey, Subhasish, IR July/Aug. 00, p255-263
- Del Giudice, Giuseppe**  
Supercritical Flow in Bend Manhole, with Corrado Gisonni and Willi H. Hager, IR Jan./Feb. 00, p48-56
- Dey, Subhasish**  
Chebyshev Solution as Aid in Computing GVF by Standard Step Method, IR July/Aug. 00, p271-274  
Influence of Stream-Wise Bed Slope on Sediment Threshold under Stream Flow, with Koustuv Debnath, IR July/Aug. 00, p255-263
- Edling, R. J.**  
see Shah, S. B., IR Jan./Feb. 00, p8-13
- Eid, Naglaa**  
Nitrate Electromigration in Sandy Soil: Closed System Response, with Donald Slack and Dennis Larson, IR Nov./Dec. 00, p389-397
- Elliott, R. L.**  
see Ali, R., IR July/Aug. 00, p223-233  
see Ali, R., IR July/Aug. 00, p234-242
- Faci, J. M.**  
see Zapata, N., IR Nov./Dec. 00, p362-370
- Faulkner, B. R.**  
Field-Scale Observations of Arsenic and Boron in Soil Irrigated with Drainwater, with J. C. Guitjens, IR May/June 00, p186-189
- Ferro, Vito**  
Simultaneous Flow over and Under a Gate, IR May/June 00, p190-193  
Theoretical End-Depth-Discharge Relationship for Free Overfall, IR Jan./Feb. 99, p40-44  
disc: Michael B. Sonnen, IR Mar./Apr. 00, p133-136  
clo: IR Mar./Apr. 00, p136-138
- Garcia-Navarro, P.**  
Solute Transport Modeling in Overland Flow Applied to Fertigation, with E. Playán and N. Zapata, IR Jan./Feb. 00, p33-40
- Ghidaoui, M. S.**  
A Priori Identifiability of Unsaturated Soil Parameters, with K. S. H. Prasad, IR May/June 00, p163-171
- Gilfedder, Mathew**  
Border Irrigation Field Experiment. I: Water Balance, with Luke D. Connell and Russell G. Mein, IR Mar./Apr. 00, p85-91  
Border Irrigation Field Experiment. II: Salt Transport, with Russell G. Mein and Luke D. Connell, IR Mar./Apr. 00, p92-97
- Gisonni, Corrado**  
see Del Giudice, Giuseppe, IR Jan./Feb. 00, p48-56
- Gochis, David J.**  
Plant Water Use and Crop Curves for Hybrid Poplars, with Richard H. Cuenca, IR July/Aug. 00, p206-214
- Goel, Arun**  
see Verma, D. V. S., IR May/June 00, p179-184
- Gomez-MacPherson, H.**  
see Snyder, R. L., IR Nov./Dec. 00, p399-403
- Grigg, Neil S.**  
disc. (of Problems of Irrigation in Developing Countries, by Phillip Z. Kirpich, Dorota Z. Haman and Stuart W. Styles, IR Jan./Feb. 99, p1-6), IR May/June 00, p195-196
- Grismer, Mark E.**  
Long-Term Evapotranspiration from Coastal Avocado/Citrus Orchard, IR Jan./Feb. 00, p1-7
- Guitjens, J. C.**  
Editorial, IR July/Aug. 00, p205  
see Faulkner, B. R., IR May/June 00, p186-189
- Guitjens, J. C., P.E.**  
Editorial, IR May/June 00, p141
- Guitjens, John C.**  
Journal Needs More New Referees, IR Mar./Apr. 00, p77
- Guo, James C. Y.**  
Street Storm Water Conveyance Capacity, IR Mar./Apr. 00, p119-123
- Hager, Willi H.**  
see Del Giudice, Giuseppe, IR Jan./Feb. 00, p48-56
- Haman, Dorota Z.**  
see Kirpich, Phillip Z., IR Jan./Feb. 99, p1-6
- Helweg, Otto J.**  
Water Planning for Food Production in Developing Countries by Phillip Z. Kirpich, IR May/June 00, p203  
disc. (of Problems of Irrigation in Developing Countries, by Phillip Z. Kirpich, Dorota Z. Haman and Stuart W. Styles, IR Jan./Feb. 99, p1-6), IR May/June 00, p196-197
- Holland, D. F.**  
Measurement of Subsurface Unsaturated Hydraulic Conductivity, with M. Yitayew and A. W. Warrick, IR Jan./Feb. 00, p21-27
- Howell, Terry A.**  
disc. (of Adjusting Temperature Parameters to Reflect Well-Watered Conditions, by B. Temesgen, R. G. Allen and D. T. Jensen, IR Jan./Feb. 99, p26-33), IR Sept./Oct. 00, p340-342
- Istanbuloglu, E.**  
disc. (of Theoretical Justification of SCS Method for Runoff Estimation, by Bofu Yu, IR Nov./Dec. 98, p306-310), IR Jan./Feb. 00, p74-75
- Jaiswal, C. S.**  
see Kumar, Vinod, IR July/Aug. 00, p250-254
- Jensen, D. T.**  
see Temesgen, B., IR Jan./Feb. 99, p26-33
- Kacimov, A. R.**  
Circular Isobaric Cavity in Descending Unsaturated Flow, IR May/June 00, p172-178
- Kapoor, P. N.**  
see Sharma, H. C., IR Jan./Feb. 00, p14-20
- Kirpich, Phillip Z.**  
Problems of Irrigation in Developing Countries, with Dorota Z. Haman and Stuart W. Styles, IR Jan./Feb. 99, p1-6  
disc: Gabriel J. Tibor, IR May/June 00, p195  
disc: Neil S. Grigg, IR May/June 00, p195-196  
disc: Otto J. Helweg, IR May/June 00, p196-197  
disc: Herve Plusquellec and Charles M. Burt, IR May/June 00, p197-199  
disc: John L. Merriam, IR May/June 00, p199-201  
clo: IR May/June 00, p201-202
- Kumar, D. Nagesh**  
see Paul, Sabu, IR May/June 00, p149-156
- Kumar, Vinod**  
Numerical Solution of 2D Free Surface Flow to Ditch Drains in Anisotropic Soils, with C. S. Jaiswal and H. S. Chauhan, IR July/Aug. 00, p250-254
- Larson, Dennis**  
see Eid, Naglaa, IR Nov./Dec. 00, p389-397
- Le Gat, Yves**  
Model of Water Application under Pivot Sprinkler. I: Theoretical Grounds, with Bruno Molle, IR Nov./Dec. 00, p343-347  
see Molle, Bruno, IR Nov./Dec. 00, p348-354
- Leeds-Harrison, F. B.**  
see Youngs, E. G., IR Nov./Dec. 00, p375-380
- Louie, Michael J.**  
Sprinkler Head Maintenance Effects on Water Application Uniformity, with John S. Selker, IR May/June 00, p142-148
- Luthra, S. K.**  
see Tyagi, N. K., IR July/Aug. 00, p215-222
- Magallanes, Henry**  
see Samani, Zohrab, IR Mar./Apr. 00, p127-129
- Mahar, P. S.**  
see Singh, Ajai, IR Nov./Dec. 00, p371-374
- Mansoor, Talib**  
see Swamee, Prabhata K., IR Sept./Oct. 00, p328-334
- Mateos, L.**  
Simulating Spatially Distributed Water and Salt Balances, with C. A. Young, W. W. Wallender and H. L. Carlson, IR Sept./Oct. 00, p288-295
- Maxwell, Adam R.**  
see Papanicolaou, Athanasios N., IR Sept./Oct. 00, p314-321
- Mein, Russell G.**  
see Gilfedder, Mathew, IR Mar./Apr. 00, p85-91  
see Gilfedder, Mathew, IR Mar./Apr. 00, p92-97
- Merriam, John L.**  
disc. (of Problems of Irrigation in Developing Countries, by Phillip Z. Kirpich, Dorota Z. Haman and Stuart W. Styles, IR Jan./Feb. 99, p1-6), IR May/June 00, p199-201
- Mishra, Govinda C.**  
see Swamee, Prabhata K., IR Jan./Feb. 00, p28-32  
see Swamee, Prabhata K., IR Jan./Feb. 00, p65-67  
see Swamee, Prabhata K., IR Mar./Apr. 00, p125-126  
see Swamee, Prabhata K., IR Sept./Oct. 00, p322-327
- Molle, Bruno**  
Model of Water Application under Pivot Sprinkler. II: Calibration and Results, with Yves Le Gat, IR Nov./Dec. 00, p348-354  
see Le Gat, Yves, IR Nov./Dec. 00, p343-347
- Monserrat, Joaquin**  
Estimation of Surface Volume in Hydrological Models for Border Irrigation, with Javier Barragan, IR Sept./Oct. 98, p238-247

- disc: John D. Valiantzas, IR Mar./Apr. 00, p131-133  
 clo: IR Mar./Apr. 00, p133
- Norman, W. Ray**  
 Water Distribution Management in Small West African Canal Systems, with M. Todd Walter, Michael F. Walter and Erin S. Brooks, IR Sept./Oct. 00, p304-313
- Novák, V.**  
 Infiltration of Water into Soil with Cracks, with J. Šimunek and M. Th. van Genuchten, IR Jan./Feb. 00, p41-47
- Ojha, Chandra Shekhar P.**  
 see Swamee, Prabhata K., IR Sept./Oct. 00, p328-334
- Panda, Sudhindra Nath**  
 see Paul, Sabu, IR May/June 00, p149-156
- Papacolaou, Athanasios N.**  
 Hydraulic Performance of Fish Bypass-Pools for Irrigation Diversion Channels, with Adam R. Maxwell, IR Sept./Oct. 00, p314-321
- Pathak, Santosh K.**  
 see Swamee, Prabhata K., IR Sept./Oct. 00, p328-334
- Paul, Sabu**  
 Optimal Irrigation Allocation: A Multilevel Approach, with Sudhindra Nath Panda and D. Nagesh Kumar, IR May/June 00, p149-156
- Playán, E.**  
 see García-Navarro, P., IR Jan./Feb. 00, p33-40  
 see Zapata, N., IR Mar./Apr. 00, p78-84  
 see Zapata, N., IR Nov./Dec. 00, p362-370
- Plusquellec, Hervé**  
 disc: (of Problems of Irrigation in Developing Countries, by Phillip Z. Kirpich, Dorota Z. Haman and Stuart W. Styles, IR Jan./Feb. 99, p1-6) with Charles M. Burt, IR May/June 00, p197-199
- Prasad, K. S. H.**  
 see Ghidaoui, M. S., IR May/June 00, p163-171
- Priestley, Stephen**  
 disc: (of Theoretical Justification of SCS Method for Runoff Estimation, by Bofu Yu, IR Nov./Dec. 98, p306-310), IR Jan./Feb. 00, p75
- Purcell, Patrick J.**  
 disc: (of Factor G for Pipelines with Equally Spaced Multiple Outlets and Outflow, by Arif A. Anwar, IR Jan./Feb. 99, p34-38), IR Mar./Apr. 00, p138-139
- Raghuwanshi, N. S.**  
 see Schwankl, L. J., IR Sept./Oct. 00, p283-287  
 see Schwankl, L. J., IR Nov./Dec. 00, p355-361
- Renault, D.**  
 Operational Sensitivity of Irrigation Structures, IR May/June 00, p157-162
- Revelli, R.**  
 Influence Zone of Recharging-Dewatering Actions in Unconfined Aquifer, with L. Ridolfi, IR Mar./Apr. 00, p110-112
- Ridolfi, L.**  
 see Revelli, R., IR Mar./Apr. 00, p110-112
- Samani, Zohrab**  
 Estimating Solar Radiation and Evapotranspiration Using Minimum Climatological Data, IR July/Aug. 00, p265-267  
 Simple Flume for Flow Measurement in Open Channel, with Henry Magallanes, IR Mar./Apr. 00, p127-129
- Schwankl, L. J.**  
 Furrow Irrigation Performance under Spatially Varying Conditions, with N. S. Raghuwanshi and W. W. Wallender, IR Nov./Dec. 00, p355-361  
 Time Series Modeling for Predicting Spatially Variable Infiltration, with N. S. Raghuwanshi and W. W. Wallender, IR Sept./Oct. 00, p283-287
- Selker, John S.**  
 see Louie, Michael J., IR May/June 00, p142-148
- Shah, S. B.**  
 Daily Evapotranspiration Prediction from Louisiana Flooded Rice Field, with R. J. Edling, IR Jan./Feb. 00, p8-13
- Sharma, D. K.**  
 see Tyagi, N. K., IR July/Aug. 00, p215-222
- Sharma, H. C.**  
 Transient Ditch Drainage of Two-Layered Soil, with P. N. Kapoor and H. S. Chauhan, IR Jan./Feb. 00, p14-20
- Šimunek, J.**  
 see Novák, V., IR Jan./Feb. 00, p41-47
- Singh, Ajai**  
 Optimal Design of Tapered Microirrigation Submain Manifolds, with R. P. Singh, P. S. Mahar and K. K. Singh, IR Nov./Dec. 00, p371-374
- Singh, K. K.**  
 see Singh, Ajai, IR Nov./Dec. 00, p371-374
- Singh, R. P.**  
 see Singh, Ajai, IR Nov./Dec. 00, p371-374
- Singh, Sushil K.**  
 Rate and Volume of Stream Depletion Due to Pumping, IR Sept./Oct. 00, p336-338  
 Simple Method for Confined-Aquifer Parameter Estimation, IR Nov./Apr. 00, p404-407
- Slack, Donald**  
 see Eid, Naglaa, IR Nov./Dec. 00, p389-397
- Snyder, R. L.**  
 Estimating Evaporation from Bare or Nearly Bare Soil, with K. Bali, F. Ventura and H. Gomez-MacPherson, IR Nov./Dec. 00, p399-403
- Sonnen, Michael B.**  
 disc: (of Theoretical End-Depth-Discharge Relationship for Free Overfall, by Vito Ferro, IR Jan./Feb. 99, p40-44), IR Mar./Apr. 00, p133-136
- Stankovic, Miomir**  
 see Trajkovic, Slavisa, IR July/Aug. 00, p268-270
- Stevens, E. W.**  
 see Ali, R., IR July/Aug. 00, p223-233  
 see Ali, R., IR July/Aug. 00, p234-242
- Strelkoff, T. S.**  
 Approximating Wetted Perimeter in Power-Law Cross Section, with A. J. Clemmens, IR Mar./Apr. 00, p98-109
- Styles, S. W.**  
 see Burt, C. M., IR Sept./Oct. 00, p279-282
- Styles, Stuart W.**  
 see Kirpich, Phillip Z., IR Jan./Feb. 99, p1-6
- Swailes, D. C.**  
 see Babaeyan-Koopaei, K., IR Nov./Dec. 00, p408-411
- Swamee, Prabhata K.**  
 Comprehensive Design of Minimum Cost Irrigation Canal Sections, with Govinda C. Mishra and Bhagu R. Chahar, IR Sept./Oct. 00, p322-327  
 Design of Minimum Seepage Loss Canal Sections, with Govinda C. Mishra and Bhagu R. Chahar, IR Jan./Feb. 00, p28-32  
 Discharge Characteristics of Skew Sluice Gates, with Santosh K. Pathak, Talib Mansoor and Chandra Shekhar P. Ojha, IR Sept./Oct. 00, p328-334  
 Simple Approximation for Flowing Well Problem, with Govinda C. Mishra and Bhagu R. Chahar, IR Jan./Feb. 00, p65-67  
 Solution for a Stream Depletion Problem, with Govinda C. Mishra and Bhagu R. Chahar, IR Mar./Apr. 00, p125-126
- Tarboton, K. C., P.E.**  
 Finite-Element Grid Configurations for Drains, with W. W. Wallender, P.E., IR July/Aug. 00, p243-249
- Temesgen, B.**  
 Adjusting Temperature Parameters to Reflect Well-Watered Conditions, with R. G. Allen and D. T. Jensen, IR Jan./Feb. 99, p26-33  
 disc: Terry A. Howell, IR Sept./Oct. 00, p340-342
- Tibor, Gabriel J.**  
 disc: (of Problems of Irrigation in Developing Countries, by Phillip Z. Kirpich, Dorota Z. Haman and Stuart W. Styles, IR Jan./Feb. 99, p1-6), IR May/June 00, p195
- Todorovic, Branimir**  
 see Trajkovic, Slavisa, IR July/Aug. 00, p268-270
- Trajkovic, Slavisa**  
 Estimation of FAO Blaney-Cridle *b* Factor by RBF Network, with Miomir Stankovic and Branimir Todorovic, IR July/Aug. 00, p268-270
- Tyagi, N. K.**  
 Evapotranspiration and Crop Coefficients of Wheat and Sorghum Climate in India, with D. K. Sharma and S. K. Luthra, IR July/Aug. 00, p215-222
- Valentine, E. M.**  
 see Babaeyan-Koopaei, K., IR Nov./Dec. 00, p408-411
- Valiantzas, John D.**  
 disc: (of Estimation of Surface Volume in Hydrological Models for Border Irrigation, by Joaquín Monserrat and Javier Barragán, IR Sept./Oct. 98, p238-247), IR Mar./Apr. 00, p131-133
- van Genuchten, M. Th.**  
 see Novák, V., IR Jan./Feb. 00, p41-47
- Ventura, F.**  
 see Snyder, R. L., IR Nov./Dec. 00, p399-403
- Verma, D. V. S.**  
 Stilling Basins for Pipe Outlets Using Wedge-Shaped Splitter Block, with Arun Goel, IR May/June 00, p179-184
- Wallender, W. W.**  
 see Mateos, L., IR Sept./Oct. 00, p288-295  
 see Schwankl, L. J., IR Sept./Oct. 00, p283-287  
 see Schwankl, L. J., IR Nov./Dec. 00, p355-361
- Wallender, W. W., P.E.**  
 see Tarboton, K. C., P.E., IR July/Aug. 00, p243-249
- Walter, M. Todd**  
 see Norman, W. Ray, IR Sept./Oct. 00, p304-313
- Walter, Michael F.**  
 see Norman, W. Ray, IR Sept./Oct. 00, p304-313
- Warrick, A. W.**  
 see Holland, D. F., IR Jan./Feb. 00, p21-27
- Vitayew, M.**  
 see Holland, D. F., IR Jan./Feb. 00, p21-27
- Young, C. A.**  
 see Mateos, L., IR Sept./Oct. 00, p288-295
- Youngs, E. G.**  
 Improving Efficiency of Desalinization with Subsurface Drainage, with P. B. Leeds-Harrison, IR Nov./Dec. 00, p375-380
- Yu, Bofu**  
 Theoretical Justification of SCS Method for Runoff Estimation, IR Nov./Dec. 98, p306-310  
 disc: E. Istanbuloglu, IR Jan./Feb. 00, p74-75  
 disc: Stephen Priestley, IR Jan./Feb. 00, p75  
 clo: IR Jan./Feb. 00, p76
- Zapata, N.**  
 Simulating Elevation and Infiltration in Level-Basin Irrigation, with E. Playán, IR Mar./Apr. 00, p78-84  
 Water Reuse in Sequential Basin Irrigation, with E. Playán and J. M. Faci, IR Nov./Dec. 00, p362-370  
 see García-Navarro, P., IR Jan./Feb. 00, p33-40



